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PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER See Notification of	of Transmittal of International Search Report
BBI-102CPPC	ACTION (Form PCT/ISA/2	20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 99/19452	26/08/1999	26/08/1998
Applicant		L
BASF AKTIENGESELLSCHAFT et	t al.	
This international Search Report has been according to Article 18. A copy is being tra	n prepared by this international Searching Auth Insmitted to the international Bureau.	ority and is transmitted to the applicant
This international Search Report consists of the also accompanied by a	of a total of4 sheets. a copy of each prior art document cited in this i	report.
Basis of the report		
 With regard to the language, the language in which it was filed, unle 	nternational search was carried out on the basi ses otherwise indicated under this item.	is of the international application in the
the International search wa Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	e International application furnished to this
was carried out on the basis of the contained in the internation filed together with the inten	nal application in written form. national application in computer readable form.	
	this Authority in written form.	
	this Authority in computer readble form. sequently furnished written sequence listing do	on not an house of the displacements the
International application as	filed has been furnished.	as not go peyond the disclosure in the
the statement that the infor furnished	mation recorded in computer readable form is i	Identical to the written sequence listing has been
2. X Certain claims were found	d unsearchable (See Box I).	
3. Unity of invention is lacki	ng (see Box II).	•
4. With regard to the title,		
the text is approved as sub-	mitted by the applicant.	
the text has been established	ed by this Authority to read as follows:	
5. With regard to the abstract,		
the text is approved as subremental the text has been established within one month from the discountries.	mitted by the applicant. ed, according to Rule 38.2(b), by this Authority is late of mailing of this international search repor	as it appears in Box III. The applicant may, 1, submit comments to this Authority.
6. The figure of the drawings to be publish		=_
as suggested by the applica	-	None of the figures.
because the applicant falled	to suggest a figure.	
because this figure better ch	naracterizes the Invention.	



INTERNATIONAL SEARCH REPORT

.nternational application No.

PCT/US 99/19452

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This into	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Remark: Although claims 9-32 and 40 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2	Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	national Searching Authority found multiple inventions in this international application, as follows:
1. 🔲	As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. 🔲 🖔	As only some of the required additional search fees were timely paid by the applicant, this International Search Report povers only those claims for which fees were paid, specifically claims Nos.:
4. N	to required additional search fees were timely paid by the applicant. Consequently, this international Search Report is setricted to the invention first mentioned in the claims; it is covered by claims Nos.;
Remark or	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

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stional Application No PCT/US 99/19452

A. CLASS	FICATION OF SUB IEC	THATTED
IPC 7	FICATION OF BUBLIEC C12N15/86	A61K48/00

According to international Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Category *	Cttation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CHAISOMCHIT S. ET AL.: "Development of replicative and nonreplicative hepatitis B virus vectors." GENE THERAPY, vol. 4, no. 12, 1997, pages 1330-1340, XP000874038	1-5,9, 10, 12-16, 21-23, 26-29, 31,33,
Y	the whole document	37-40 6-8,11, 20,24, 30,32, 34-36

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance. "E" earlier document but published on or after the international tiling date. "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another obtain or other special reason (as specified). "O" document referring to an oral disclosure, use, exhibition or other means. "P" document published prior to the international filing date but later than the priority date claimed.	"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to knyolve an inventive step when the document is taken alone. "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
1 February 2000	15/02/2000		
Name and mailing address of the ISA European Patent Office, P.B. 6818 Patentiaen 2 NL – 2280 HV Rijewijk Tel (1951 - 270) 846 - 270 Tel 1851 - 270 Fil	Authorized officer		
Tel. (431-70) 346-2640, Tx. 31 851 epo ni, Fexc (431-70) 340-3018	Mandl, B		

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ational Application No
PCT/US 99/19452

C (Cambin)		PCT/US 99/19452	
Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to dalm No.	
Y	GUTTERMAN J. U.: "Cytokine therapeutics: Lessons from interferon alpha." PROC. NATL. ACAD. SCI. U.S.A., vol. 91, 1994, pages 1198-1205, XP002129420 page 1201, right-hand column, last paragraph -page 1202, middle column, paragraph 1	6-8,11, 24,30, 32,34,35	
Y	WO 98 09524 A (CHIRON CORP; INDIANA UNIVERSITY (US)) 12 March 1998 (1998-03-12) page 8, line 6 - line 10 page 10, line 13 - line 26	6-8,11, 20,24, 30,32, 34-36	
	KONISHI K. ET AL.: "A simple and sensitive bioassay for the detection of human interleukin-18/interferon-y-inducing factor using human myelomonocytic KG-1 cells" JOURNAL OF IMMUNOLOGICAL METHODS, vol. 209, no. 2, 1 January 1997 (1997-01-01), pages 187-191, XP004103796 ISSN: 0022-1759 page 187	20,25,36	
	US 5 981 274 A (CHAISOMCHIT SUMONTA ET AL) 9 November 1999 (1999-11-09) the whole document	1-5,9, 10, 12-16, 21-23, 26-29, 31,33, 37-40	
	PROTZER U. ET AL.: "INTERFERON GENE TRANSFER BY A HEPATITIS B VIRUS VECTOR EFFICIENTLY SUPPRESSES WILD—TYPE VIRUS INFECTION" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 96, no. 19, 14 September 1999 (1999-09-14), pages 10818-10823, XP002129421 the whole document	1-40	

INTEF \\TIONAL SEARCH REPORT

Information on patent family members

ectional Application No PCT/US 99/19452

Patent document cited in search repo	rt	Publication dat	Patent family member(s)	Publication date
WO 9809524	A	12-03-1998	EP 0933997 A	11-08-1999
US 5981274	A	09-11-1999	NONE	